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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/629,570	07/30/2003	Atsushi Nishio	02410338AA	6464
30743	7590	03/08/2004	EXAMINER	
WHITHAM, CURTIS & CHRISTOFFERSON, P.C. 11491 SUNSET HILLS ROAD SUITE 340 RESTON, VA 20190			HAMMOND, BRIGGITTE R	
			ART UNIT	PAPER NUMBER
			2833	

DATE MAILED: 03/08/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.		Applicant(s)	
	10/629,570		NISHIO ET AL.	
	Examiner		Art Unit	
	Brigitte R. Hammond		2833	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-7 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 12 November 2003 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Specification

The disclosure is objected to because of the following informalities: it is unclear to the Examiner how the first conductive member is brought into contact with the first conductive member. Therefore, on page 2, line 20, change "first" to - -second- -.

Appropriate correction is required.

Abstract

The abstract of the disclosure is objected to because : it is unclear to the Examiner how the first conductive member is brought into contact with the first conductive member. Therefore, in line 10, change "first" to - -second- -.

Correction is required. See MPEP § 608.01(b).

Claim Objections

Claim 1 is objected to because of the following informalities: in lines 11- 12, it is unclear to the Examiner how the first conductive member is brought into contact with the first conductive member. Therefore, in line 12, change "first" to - -second- -.

Appropriate correction is required.

As a courtesy to the applicant, the examiner has "objected" to the claim. However, in order to avoid a 35 USC § 112 rejection, appropriate correction is required in response to this office action. For examination purposes the Examiner shall assume a "second" conductive member.

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the memory module (claim 3) must be shown or the feature canceled from the claim. No new matter should be entered.

Figures 4A to 9 should be designated by a legend such as - -Related Art- - because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings **are required** in reply to the Office action to avoid abandonment of the application. **The objection to the drawings will not be held in abeyance.**

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

Claims 1,2 and 5-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Kelly, Jr. 3,701,077. Kelly, Jr. disclose a connection structure, comprising: a connector 30, having an inner side face 42 defining a chamber (not numbered, at 35) formed with an opening; a module body 10, inserted from the opening to be accommodated in the chamber; a first conductive member 16, 18 provided on an outer periphery of the module body which is opposed to the inner side face of the connector in a case where the module body is accommodated in the chamber; and a second conductive member 52,54, provided on the inner side face of the connector, such that the first conductive member is brought into contact with the second conductive member in a case where the module body is plenarily accommodated in the chamber.

Regarding claim 2, the second conductive member 54 is extended in a direction parallel to an inserting direction of the module body, as shown in fig. 3.

Regarding claim 5, an end (at 34) of the chamber opposite to the opening is made open.

Regarding claim 6, at least a pair 52,54 of the second conductive member is arranged on the inner side face of the connector so as to oppose each other.

Regarding claim 7, wherein the second conductive member has elasticity (spring portions 56,58).

Claims 1,2,4 and 5 are rejected under 35 U.S.C. 102(b) as being anticipated by Elberbaum 6,268,882. Elberbaum discloses a connection structure in fig. 9A, comprising: a connector 61, having an inner side face defining a chamber formed with an opening (not numbered); a module body 5,7, inserted from the opening to be accommodated in the chamber; a first conductive member 4b provided on an outer periphery of the module body which is opposed to the inner side face of the connector in a case where the module body is accommodated in the chamber; and a second conductive member 4a, provided on the inner side face of the connector, such that the first conductive member is brought into contact with the second conductive member in a case where the module body is plenarily accommodated in the chamber.

Regarding claim 2, Elberbaum discloses the second conductive member being is extended in a direction parallel to an inserting direction of the module body.

Regarding claim 4, Elberbaum discloses the module body is a camera module.

Regarding claim 5, an end (fig.13) of the chamber opposite to the opening is made open.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kelly, Jr. in view of Hundt 5,289,034. Kelly, Jr. discloses the invention substantially as claimed except for the module being a memory module. However, memory modules are well known in the art as evidenced by Hundt. Hundt discloses a memory module 10 (col.3, line 55). Therefore, it would have been obvious to one of ordinary skill to modify the connector of Kelly, Jr. by providing the a module body as a memory body for low power consumption as taught by Hundt.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Atoh 5,055,972, Kinoshita 5,360,353 and Crawford 4,491,378 were cited for similar connectors.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brigitte R. Hammond whose telephone number is 571-

272-2006. The examiner can normally be reached on Monday-Thursday and Alternate Fridays from 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula A Bradley can be reached on 571-272-2800 ext. 33. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Brigitte R. Hammond

February 25, 2004